

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical
Information Center (STIC) no errors detected.

Application Serial Number: 10/517,600A
Source: 1 FWP
Date Processed by STIC: 10/19/06

ENTERED

CRF Errors Edited by the STIC Systems Branch

Serial Number: 10/517,600A

CRF Edit Date: 10/19/06
Edited by: JS

___ Realigned nucleic acid/amino acid numbers/text in cases where the sequence text "wrapped" to the next line

___ Corrected the SEQ ID NO. Sequence numbers edited were:

___ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:

___ Deleted: ___ invalid beginning/end-of-file text ; ___ page numbers

___ Inserted mandatory headings/numeric identifiers, specifically:

___ Moved responses to same line as heading/numeric identifier, specifically:

✓ Other: Sequence 68-corrected the "Xaa" term



IFWP

RAW SEQUENCE LISTING

DATE: 10/19/2006

PATENT APPLICATION: US/10/517,600A

TIME: 15:52:10

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\10192006\J517600A.raw

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3 <110> APPLICANT: Sugiyama, Haruo
4     Gotoh, Masashi
5     Takasu, Hideo
7 <120> TITLE OF INVENTION: HLA-A24-RESTRICTED CANCER ANTIGEN PEPTIDES
9 <130> FILE REFERENCE: 275596USXPCT
11 <140> CURRENT APPLICATION NUMBER: 10/517,600A
12 <141> CURRENT FILING DATE: 2004-12-13
14 <150> PRIOR APPLICATION NUMBER: PCT/JP03/07463
15 <151> PRIOR FILING DATE: 2003-06-12
17 <150> PRIOR APPLICATION NUMBER: JP 2002-171518
18 <151> PRIOR FILING DATE: 2002-06-12
20 <150> PRIOR APPLICATION NUMBER: JP 2002-275572
21 <151> PRIOR FILING DATE: 2002-09-20
23 <160> NUMBER OF SEQ ID NOS: 68
25 <170> SOFTWARE: PatentIn version 3.3
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30 <213> ORGANISM: Homo sapiens
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42 Gln Trp Ala Pro Val Leu Asp Phe Ala Pro Pro Gly Ala Ser Ala Tyr
43           35           40           45
46 Gly Ser Leu Gly Gly Pro Ala Pro Pro Pro Ala Pro Pro Pro Pro
47           50           55           60
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51 65           70           75           80
54 Ala Glu Pro His Glu Glu Gln Cys Leu Ser Ala Phe Thr Val His Phe
55           85           90           95
58 Ser Gly Gln Phe Thr Gly Thr Ala Gly Ala Cys Arg Tyr Gly Pro Phe
59           100          105          110
62 Gly Pro Pro Pro Pro Ser Gln Ala Ser Ser Gly Gln Ala Arg Met Phe
63           115          120          125
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67           130          135          140
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71 145          150          155          160
74 Gly His Thr Pro Ser His His Ala Ala Gln Phe Pro Asn His Ser Phe
75           165          170          175
78 Lys His Glu Asp Pro Met Gly Gln Gln Gly Ser Leu Gly Glu Gln Gln

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TIME: 15:52:10

Input Set : A:\PTO.AMC.txt

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82 Tyr Ser Val Pro Pro Pro Val Tyr Gly Cys His Thr Pro Thr Asp Ser
83          195          200          205
86 Cys Thr Gly Ser Gln Ala Leu Leu Arg Thr Pro Tyr Ser Ser Asp
87          210          215          220
90 Asn Leu Tyr Gln Met Thr Ser Gln Leu Glu Cys Met Thr Trp Asn Gln
91 225          230          235          240
94 Met Asn Leu Gly Ala Thr Leu Lys Gly Val Ala Ala Gly Ser Ser Ser
95          245          250          255
98 Ser Val Lys Trp Thr Glu Gly Gln Ser Asn His Ser Thr Gly Tyr Glu
99          260          265          270
102 Ser Asp Asn His Thr Thr Pro Ile Leu Cys Gly Ala Gln Tyr Arg Ile
103          275          280          285
106 His Thr His Gly Val Phe Arg Gly Ile Gln Asp Val Arg Arg Val Pro
107          290          295          300
110 Gly Val Ala Pro Thr Leu Val Arg Ser Ala Ser Glu Thr Ser Glu Lys
111 305          310          315          320
114 Arg Pro Phe Met Cys Ala Tyr Pro Gly Cys Asn Lys Arg Tyr Phe Lys
115          325          330          335
118 Leu Ser His Leu Gln Met His Ser Arg Lys His Thr Gly Glu Lys Pro
119          340          345          350
122 Tyr Gln Cys Asp Phe Lys Asp Cys Glu Arg Arg Phe Ser Arg Ser Asp
123          355          360          365
126 Gln Leu Lys Arg His Gln Arg Arg His Thr Gly Val Lys Pro Phe Gln
127          370          375          380
130 Cys Lys Thr Cys Gln Arg Lys Phe Ser Arg Ser Asp His Leu Lys Thr
131 385          390          395          400
134 His Thr Arg Thr His Thr Gly Lys Thr Ser Glu Lys Pro Phe Ser Cys
135          405          410          415
138 Arg Trp Pro Ser Cys Gln Lys Lys Phe Ala Arg Ser Asp Glu Leu Val
139          420          425          430
142 Arg His His Asn Met His Gln Arg Asn Met Thr Lys Leu Gln Leu Ala
143          435          440          445
146 Leu

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150 <210> SEQ ID NO: 2

151 <211> LENGTH: 9

152 <212> TYPE: PRT

153 <213> ORGANISM: Artificial Sequence

155 <220> FEATURE:

156 <223> OTHER INFORMATION: Synthetic Peptide

158 <400> SEQUENCE: 2

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161 1 5

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165 <211> LENGTH: 9

166 <212> TYPE: PRT

167 <213> ORGANISM: Artificial Sequence

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170 <223> OTHER INFORMATION: Synthetic Peptide

RAW SEQUENCE LISTING

DATE: 10/19/2006

PATENT APPLICATION: US/10/517,600A

TIME: 15:52:10

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\10192006\J517600A.raw

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189 1 5
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194 <212> TYPE: PRT
195 <213> ORGANISM: Artificial Sequence
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212 <223> OTHER INFORMATION: Synthetic Peptide
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217 1 5
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222 <212> TYPE: PRT
223 <213> ORGANISM: Artificial Sequence
225 <220> FEATURE:
226 <223> OTHER INFORMATION: Synthetic Peptide
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237 <213> ORGANISM: Artificial Sequence
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240 <223> OTHER INFORMATION: Synthetic Peptide
242 <400> SEQUENCE: 8
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245 1 5
248 <210> SEQ ID NO: 9

RAW SEQUENCE LISTING

DATE: 10/19/2006

PATENT APPLICATION: US/10/517,600A

TIME: 15:52:10

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\10192006\J517600A.raw

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254 <223> OTHER INFORMATION: Synthetic Peptide
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292 <212> TYPE: PRT
293 <213> ORGANISM: Artificial Sequence
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310 <223> OTHER INFORMATION: Synthetic Peptide
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320 <212> TYPE: PRT
321 <213> ORGANISM: Artificial Sequence
323 <220> FEATURE:

RAW SEQUENCE LISTING

DATE: 10/19/2006

PATENT APPLICATION: US/10/517,600A

TIME: 15:52:10

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\10192006\J517600A.raw

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337 <220> FEATURE:

338 <223> OTHER INFORMATION: Synthetic Peptide

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346 <210> SEQ ID NO: 16

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348 <212> TYPE: PRT

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352 <223> OTHER INFORMATION: Synthetic Peptide

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363 <213> ORGANISM: Artificial Sequence

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366 <223> OTHER INFORMATION: Synthetic Peptide

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380 <223> OTHER INFORMATION: Synthetic Peptide

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391 <213> ORGANISM: Artificial Sequence

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394 <223> OTHER INFORMATION: Synthetic Peptide

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RAW SEQUENCE LISTING ERROR SUMMARY DATE: 10/19/2006
PATENT APPLICATION: US/10/517,600A TIME: 15:52:11

Input Set : A:\PTO.AMC.txt
Output Set: N:\CRF4\10192006\J517600A.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:68; Xaa Pos. 5

VERIFICATION SUMMARY

DATE: 10/19/2006

PATENT APPLICATION: US/10/517,600A

TIME: 15:52:11

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\10192006\J517600A.raw

L:1326 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:68 after pos.:0

**Raw Sequence Listing before editing
(for reference only)**



IFWP

RAW SEQUENCE LISTING

DATE: 10/18/2006

PATENT APPLICATION: US/10/517,600A

TIME: 10:21:59

Input Set : A:\275596USXPCT.ST25.txt

Output Set: N:\CRF4\10182006\J517600A.raw

3 <110> APPLICANT: Sugiyama, Haruo
 4 Gotoh, Masashi
 5 Takasu, Hideo
 7 <120> TITLE OF INVENTION: HLA-A24-RESTRICTED CANCER ANTIGEN PEPTIDES
 9 <130> FILE REFERENCE: 275596USXPCT
 11 <140> CURRENT APPLICATION NUMBER: 10/517,600A
 12 <141> CURRENT FILING DATE: 2004-12-13
 14 <150> PRIOR APPLICATION NUMBER: PCT/JP03/07463
 15 <151> PRIOR FILING DATE: 2003-06-12
 17 <150> PRIOR APPLICATION NUMBER: JP 2002-171518
 18 <151> PRIOR FILING DATE: 2002-06-12
 20 <150> PRIOR APPLICATION NUMBER: JP 2002-275572
 21 <151> PRIOR FILING DATE: 2002-09-20
 23 <160> NUMBER OF SEQ ID NOS: 68
 25 <170> SOFTWARE: PatentIn version 3.3
 27 <210> SEQ ID NO: 1
 28 <211> LENGTH: 449
 29 <212> TYPE: PRT
 30 <213> ORGANISM: Homo sapiens
 32 <400> SEQUENCE: 1
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 35 1 5 10 15
 38 Ser Leu Gly Gly Gly Gly Gly Cys Ala Leu Pro Val Ser Gly Ala Ala
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 42 Gln Trp Ala Pro Val Leu Asp Phe Ala Pro Pro Gly Ala Ser Ala Tyr
 43 35 40 45
 46 Gly Ser Leu Gly Gly Pro Ala Pro Pro Pro Ala Pro Pro Pro Pro
 47 50 55 60
 50 Pro Pro Pro Pro His Ser Phe Ile Lys Gln Glu Pro Ser Trp Gly Gly
 51 65 70 75 80
 54 Ala Glu Pro His Glu Gln Cys Leu Ser Ala Phe Thr Val His Phe
 55 85 90 95
 58 Ser Gly Gln Phe Thr Gly Thr Ala Gly Ala Cys Arg Tyr Gly Pro Phe
 59 100 105 110
 62 Gly Pro Pro Pro Pro Ser Gln Ala Ser Ser Gly Gln Ala Arg Met Phe
 63 115 120 125
 66 Pro Asn Ala Pro Tyr Leu Pro Ser Cys Leu Glu Ser Gln Pro Ala Ile
 67 130 135 140
 70 Arg Asn Gln Gly Tyr Ser Thr Val Thr Phe Asp Gly Thr Pro Ser Tyr
 71 145 150 155 160
 74 Gly His Thr Pro Ser His His Ala Ala Gln Phe Pro Asn His Ser Phe
 75 165 170 175
 78 Lys His Glu Asp Pro Met Gly Gln Gln Gly Ser Leu Gly Glu Gln Gln

Does Not Comply
Corrected Diskette Needed

see p. 8

RAW SEQUENCE LISTING

DATE: 10/18/2006

PATENT APPLICATION: US/10/517,600A

TIME: 10:21:59

Input Set : A:\275596USXPCT.ST25.txt

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82 Tyr Ser Val Pro Pro Pro Val Tyr Gly Cys His Thr Pro Thr Asp Ser
83          195          200          205
86 Cys Thr Gly Ser Gln Ala Leu Leu Arg Thr Pro Tyr Ser Ser Asp
87          210          215          220
90 Asn Leu Tyr Gln Met Thr Ser Gln Leu Glu Cys Met Thr Trp Asn Gln
91 225          230          235          240
94 Met Asn Leu Gly Ala Thr Leu Lys Gly Val Ala Ala Gly Ser Ser Ser
95          245          250          255
98 Ser Val Lys Trp Thr Glu Gly Gln Ser Asn His Ser Thr Gly Tyr Glu
99          260          265          270
102 Ser Asp Asn His Thr Thr Pro Ile Leu Cys Gly Ala Gln Tyr Arg Ile
103          275          280          285
106 His Thr His Gly Val Phe Arg Gly Ile Gln Asp Val Arg Arg Val Pro
107          290          295          300
110 Gly Val Ala Pro Thr Leu Val Arg Ser Ala Ser Glu Thr Ser Glu Lys
111 305          310          315          320
114 Arg Pro Phe Met Cys Ala Tyr Pro Gly Cys Asn Lys Arg Tyr Phe Lys
115          325          330          335
118 Leu Ser His Leu Gln Met His Ser Arg Lys His Thr Gly Glu Lys Pro
119          340          345          350
122 Tyr Gln Cys Asp Phe Lys Asp Cys Glu Arg Arg Phe Ser Arg Ser Asp
123          355          360          365
126 Gln Leu Lys Arg His Gln Arg Arg His Thr Gly Val Lys Pro Phe Gln
127          370          375          380
130 Cys Lys Thr Cys Gln Arg Lys Phe Ser Arg Ser Asp His Leu Lys Thr
131 385          390          395          400
134 His Thr Arg Thr His Thr Gly Lys Thr Ser Glu Lys Pro Phe Ser Cys
135          405          410          415
138 Arg Trp Pro Ser Cys Gln Lys Lys Phe Ala Arg Ser Asp Glu Leu Val
139          420          425          430
142 Arg His His Asn Met His Gln Arg Asn Met Thr Lys Leu Gln Leu Ala
143          435          440          445
146 Leu

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150 <210> SEQ ID NO: 2

151 <211> LENGTH: 9

152 <212> TYPE: PRT

153 <213> ORGANISM: Artificial Sequence

155 <220> FEATURE:

156 <223> OTHER INFORMATION: Synthetic Peptide

158 <400> SEQUENCE: 2

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161 1 5

164 <210> SEQ ID NO: 3

165 <211> LENGTH: 9

166 <212> TYPE: PRT

167 <213> ORGANISM: Artificial Sequence

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170 <223> OTHER INFORMATION: Synthetic Peptide

RAW SEQUENCE LISTING

DATE: 10/18/2006

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TIME: 10:21:59

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245 1 5
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RAW SEQUENCE LISTING

DATE: 10/18/2006

PATENT APPLICATION: US/10/517,600A

TIME: 10:21:59

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RAW SEQUENCE LISTING

DATE: 10/18/2006

PATENT APPLICATION: US/10/517,600A

TIME: 10:21:59

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Output Set: N:\CRF4\10182006\J517600A.raw

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348 <212> TYPE: PRT
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385 1 5
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394 <223> OTHER INFORMATION: Synthetic Peptide
396 <400> SEQUENCE: 19
398 Arg Tyr Pro Gly Val Ala Pro Thr Met
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RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/10/517,600A

DATE: 10/18/2006
TIME: 10:22:00

Input Set : A:\275596USXPCT.ST25.txt
Output Set: N:\CRF4\10182006\J517600A.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:68; Xaa Pos. 5

VERIFICATION SUMMARY

DATE: 10/18/2006

PATENT APPLICATION: US/10/517,600A

TIME: 10:22:00

Input Set : A:\275596USXPCT.ST25.txt

Output Set: N:\CRF4\10182006\J517600A.raw

L:1326 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:68 after pos.:0

10/517,600A

8

<210> 68
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Peptide

<220>
<221> MISC_FEATURE

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